

ABSTRACT OF THE DISCLOSURE

A reaction solution that is used for image recording with an ink containing a coloring material in a dissolved or dispersed state to destabilize the
5 dissolved or dispersed state of the coloring material in the ink in contact with the ink to provide high quality and abrasion-resistant images, wherein the reaction solution contains at least a polyvalent metal ion and a nonionic polymer, the K_a value
10 according to the Bristow method is from 1.3 $\text{mL}\cdot\text{m}^{-2}\cdot\text{msec}^{-1/2}$ to 3.0 $\text{mL}\cdot\text{m}^{-2}\cdot\text{msec}^{-1/2}$ inclusive, and the viscosity is from 20 $\text{mPa}\cdot\text{s}$ to 150 $\text{mPa}\cdot\text{s}$ inclusive.